	FILE 'USPAT	'FULL' ENTERED AT 11:07:55 ON 05 MAR 2007
		E WHITCOMB JEANNETTE/IN
L1	15	S E3 OR E4
L2	11	S L1 AND (NNRTI OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBITO
L3	3	S L2 AND (CODON 190/CLM)
L4	50446	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L5	876	S L4 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBIT
L6	8	S L5 AND (CODON 190/CLM OR G190S/CLM OR G190A/CLM)
L7	5	S L6 NOT L3
	FILE 'WPIDS	' ENTERED AT 11:11:28 ON 05 MAR 2007
L8	24802	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L9	72	S L8 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBIT
L10	5	S L9 AND (CODON 190 OR G190A OR G190S)
	FILE 'MEDLI	NE' ENTERED AT 11:12:39 ON 05 MAR 2007
L11	173746	S (HIV OR HUMAN IMMUNODEFICIENCY VIRUS)
L12	1179	S L11 AND (NNRTI? OR NONNUCLEOSIDE REVERSE TRANSCRIPTASE INHIBI
L13	18	S L12 AND (CODON 190 OR G190A OR G190S)
L14	0	S L13 AND AY<2000
L15	1	S L13 AND PY<2000

STANFORD UNIVERSITY HIV DRUG RESISTANCE DATABASE

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HW drug resistance.

HOME

GENOTYPE-RX

GENOTYPE-PHENO

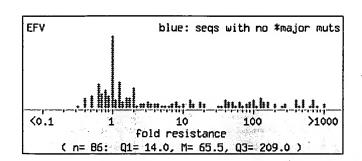
GENOTYPE-CLINICAL

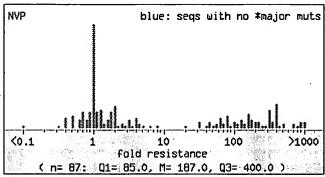
KIVOD PROGRAM

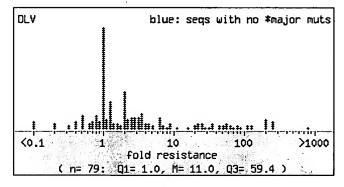
Detailed RT Phenotype Query

MutationsG190AReferences21DrugsNVP,DLV,EFVIsolates86AssayANYResults252

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 100 from Total 252 Phenotype results

Author (yr)	Туре	Isolates	NRTI	NNRTI	Other	Method	Drug	Fold
<u>Fujiwara</u> (1998)	Lab	NL432-G190A		G190A	K102Q, S162C, K277R	Fujiwara-98	DLV	0.2
						Fujiwara-98	NVP	>70.0
Huang (1999)	Lab	WH101E-108I- 190		K101E, V108I, G190A	K102Q, S162C, K277R	Virologic	DLV	>200.0
						Virologic	EFV	270.0
						Virologic	NVP	>680.0
		WH181C_190A		Y181C, G190A	K102Q, S162C, K277R	Virologic	DLV	20.0
					den de	Virologic	EFV	12.0
						Virologic	NVP	>680.0
Petropoulos (2000)	Lab	NL43-nnrti-10		K101E, G190A	K102Q, S162C, K277R	Virologic	DLV	2.0
					enter of the control	Virologic	EFV	123.0
		-			TITLE TO THE TITLE	Virologic	NVP	>500.0
		NL43-nnrti-13		K103N, G190A	K102Q, S162C, K277R	Virologic	DLV	37.0
						Virologic	EFV	213.0
						Virologic	NVP	>500.0
		NL43-nnrti-8		G190A	K102Q, S162C, K277R	Virologic	DLV	0.5
					W 440 (c. 1) 100 (c. 1	Virologic	EFV	7.6
		The state of the s				Virologic	NVP	75.0
<u>Winters</u> (2000)	Clinical	MW-q759	D67N, T69., V75I, F77L, F116Y, Q151M, M184V, K219E	Y181C, G190A	S68G	Winters- PBMC	EFV	>500.0
		-				Winters- PBMC	NVP	>150.0
		q712	D67~, T69G, K70R, T215F, K219E	A98S, K103N, Y181C, G190AG	K20R, K102E, I135T, Q197K, I202VI,	Winters- PBMC	EFV	42.5

		·		T TOTAL CONTRACTOR CONTRACT	R211K, V245K, A272P	ì		: :
						Winters- PBMC	NVP	>150.0
		q759	A62V, D67N, T69~, V75I, F77L, Y115F, F116Y, Q151M, M184V, K219E	K101E, Y181C, G190A	V35L, S68G, K122E, I135T, R172K, E203QE, R211K	Winters- PBMC	EFV	>500.0
				and Accompany of the Control of the		Winters- PBMC	NVP	>150.0
Bacheler (2001)	Lab	LB-G190A		G190A	K122E, F214L, A272P, K277R	Virco	DLV	0.2
						Virco	EFV	4.6
						Virco	NVP	41.0
<u>Dunne</u> (2001)	Clinical	ALD-pt812	M41L, E44A, D67N, K70R, V75M, M184V, T215Y	G190A	S3C, E6K, K43E, N54IN, K122E, S162C, E169D, A272P, K277R, V317A	Virologic	DLV	0.0
						Virologic	EFV	1.5
194 40000						Virologic	NVP	20.3
Masquelier (2001)	Clinical	BM-19	M41L, T69T_ST, L74VL, L210W, T215Y	K103N, Y181C, G190A	K32RK, R83K, K122E, D123ND, Q207E, R211K, L228H, K238NK	Phenoscript	EFV	>209.0
		i		1	1	Phenoscript	NVP	>2894.0
	1	BM-21			V21I, V35T, T39AT, D121H, K122E, K173S,	Phenoscript	EFV	43.5

				T	Q174R, D177E, I178M, G196E, T200I, Q207N, L228H			
		BM-32	M41L, D67G, T69T_T, K70R, L74V, V118I, M184V, T215F, K219Q	K103N, G190A	E42D, K43Q, K64N, D123E, T139R, I142T, T165I, I178MI, I202VI, F214L, L228H	Phenoscript Phenoscript	NVP EFV	>2894.0 >137.0
						Phenoscript	NVP	>1463.0
Beerenwinkel (2002)	Clinical	166-BEC	D67N, K70R, M184V, T215F, K219Q	K103S, V106A, V179I, G190A	V35M, D123E, I135T, S162C, D177X, D186X, T200A, I202X, Q207E, D218E, K238E, Q269X, A272P, T286A	GermanNRC	DLV	56.0
						GermanNRC	j	
					<u> </u>	GermanNRC	\	133.0
		1771-REC	M41W, E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	A98G, K101G, Y181C, G190A	K20R, V21F, V35M, K43X, I50X, P52X, N54X, P55X, Y56N, N57K, T58I, P59X, V60X, I63X, K64R,	GermanNRC	DLV	9.0

				S68RS, R72X, R78X, L80X, T84I, D86N, W88X, I94K, P95Q, H96X, K102X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K1			
		<u></u>			GermanNRC	<u> </u>	122.0
		<u> </u>			GermanNRC	}	180.0
		M41L, E44A, D67N, L210W, T215Y, K219E	V106A, G190A	K43E, K49R, R83K, D113ED, D123E, W153M, K154E, G155R, E169D, I178L, G196E, I202MI, R211K, K238*		DLV	126.0
					GermanNRC	EFV	18.0
					GermanNRC	NVP	200.0
	2070-PAR	M41L, D67X, L74V, M184V, L210W, T215Y, K219E	G190A, M230IM, L234I	K20R, K43E, S48P, I50X, T58I, L80X, K104NK, L109X, D113ED, K122E, K166N, I180V, Y183X, D186X,	GermanNRC	DLV	76.0

			L193FL, R211K, D250X, S251X, N255Y	GermanNRC GermanNRC	J	
2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	ļ	· · · · · · · · · · · · · · · · · · ·
				GermanNRC	EFV	40.0
				GermanNRC	NVP	69.0
292-MAT	M41L, E44D, T69D, V75M, V118I, L210W, T215S	A98S, Y181C, G190A	P4S, E6D, K20R, K43N, K102Q, K122D, K166R, T200M, Q207E, R211K, E224D, L228R	GermanNRC		56.0
				GermanNRC	}	51.0
			<u> </u>	GermanNRC	 	314.0
2942-CODE	D67N, T69X, K70R, L74V, K219Q	K103N, Y181C, G190A	K20R, V35T, T39E, S48T, V60I, D76ED, K102Q, K122E, I135T, N136KN, E138A, K173T, D177E, I178L, T200A,	GermanNRC	DLV	66.0

				K201NK, E204K, Q207A, R211K, F214L, L228H, V245Q, Q269X, A272P			
					GermanNRC	EFV	145.0
	•				GermanNRC	NVP	219.0
	2944-THA	M41L, D67N, K70X, T215F, K219Q	K103N, Y181C, G190A	V60I, D76N, D86X, K122E, D123K, I135T, N136KN, D177E, T200A, H208QH, D218E	GermanNRC	DLV	91.0
- Shahabhalananilla signa					GermanNRC	EFV	65.0
		- Allendar pro material pro material property and a second propert			ļ	}	359.0
	3349-KAH	M41L, E44D, D67N, L74V, V118I, L210W, T215Y, K219G	K103N, Y181C, G190A, M230I	V35T, K43R, F87LF, K122E, I142V, A158X, I159X, K166R, Q174R, D177G, I180M, Q197P, H198P, E203K, R206K, Q207X, H208Y, R211N, T216X, H221X, Y232X	GermanNRC	DLV	190.0
					GermanNRC		
<u> </u>	- The state of the				GermanNRC	NVP	160.0
	3885-TIM	M41L, D67N, T69D,	A98G, G190A	T58I, V60I, K82R,	GermanNRC	DLV	1.0

		T215Y		R83K, L120S, D123ED, F124X, T128X, T131H, I132X, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X	GermanNRC	EFV	1.0
					GermanNRC	NVP	56.0
	4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	DLV	11.0
200					GermanNRC	EFV	129.0
					GermanNRC	NVP	159.0
	4936-LAN	L74I,	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H,	GermanNRC	DLV	51.0

 			A288P	GermanNRC	EE\/	47 N
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 :5040 DDE	0.4.4.1	164040	1/000	the same and the same of the same of	·,	
5016-DRE	M41L, D67N, K70R, L74I, V75T, T215F, K219Q	K101Q, Y181C, G190A	K122E, R125G, K126X, Y127C, P133X, I135L, E138D, I142V, Y146*Y, P150X, W153G, I159X, K166X, L168X, E169X, P170X, D177E, G196E, T200A, E203D, F214L, K223Q, L228R,	GermanNRC	DLV	24.0
			Q242L	CormonNDC	EEV.	00.0
				GermanNRC	ļ	90.0
				GermanNRC		249.0
5075-STA	M41L, E44D, D67N, T69D, V118I, M184V, L210W, T215Y	K101H, G190A	E6K, Q23X, V35X, K43N, V60I, K122E, I142V, I178F, E203K, Q207E, R211K	GermanNRC		3.0
	·			GermanNRC	EFV	89.0
				GermanNRC	NVP	370.0
5083-FRE	M41L, E44D, D67N, L74V, V118X, M184V, L210W,	K101P, G190A	K13NK, P14X, K20R, V35L, T39X, K43E, R83K,	GermanNRC	DLV	1.0

		T215Y		D121ED, D123ED, I135T, S162D, E169D, D177E, I178M, H208Y, R211K, Q242P, V245X, N255X, L260F, S268X, Q269P			
					GermanNRC	EFV	9.0
					GermanNRC		
	5306-BRU	M41L, E44A, D67N, V75M, V118I, M184V, L210W, T215Y, K219N	K103N, G190A	K43E, V60I, K122E, I142V, S162D, D177E, I178M, G196E, E203V, Q207E, H208Y, R211K, W212X	<u> </u>	DLV	1.0
			•		GermanNRC	EFV	36.0
					GermanNRC	NVP	62.0
	5412-BRI	M41L, D67N, L74I, V75T, V118I, L210W, T215Y, K219N	K101Q, K103N, V108I, Y181C, G190A	V35M, T39A, K43E, V60X, K64NK, D123E, K173E, I178L, Q207E, D237F, K259NK, Q269P, A272P	GermanNRC		190.0
· ·	Professional days and appropriate and a supplied		t	<u>.</u>	GermanNRC	EFV	93.0
: * • · · • · · · · · · · · · · · · · · ·			1 5		GermanNRC		
	5902-KAH	1	K103N, Y181C,	Q23X, K30X,	GermanNRC	DLV	22.0

.

	D67N, L74X, V118I, M184V, L210W, T215Y, K219N	G190A	V35T, E36X, K43X, K46Y, I47F, K49I, I50F, V60X, K82NK, V90X, K122E, D123N, I142V, K166R, D177G, H208Y, R211K, V245T, S268I, K275R, K277R	GermanNRC	EEV	41.0
		-			<u> </u>	
6447-KRA	NAA41	V470I	Veol	GermanNRC GermanNRC	DLV	
0447-KKA	M41L, D67N, V75X, V118X, L210W, T215Y, K219R	V179I, G190A	V60I, D86X, V90X, K122E, T139K, P170X, I178M, Q207E, R211K, V245K			1.0
				GermanNRC	EFV	8.0
				GermanNRC	NVP	187.0
6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X,	GermanNRC	DLV	256.0

7067-BUR	A62V,	K103S, Y181X,	K259NK, S268I, Q269P P4X, T58X,	GermanNRC GermanNRC GermanNRC	NVP	283.0
	T69S, V75I, M184I, L210W, T215X, K219X	G190A	K64X, K66NK, R72SR, K122E, I135MI, I142V, R172K, D185X, D186X, Q197X, H198X, R199G, Q207E, H208X, R211K, K220NK			
}				GermanNRC		}
				GermanNRC		407.0
7557-STE	M41L, V118I, M184V, L210W, T215Y	V106A, G190A, F227X, M230V	K43E, S68G, K122E, D123E, I135T, H198X, R199X, T200A, Q207X, R211NK, T216X, E233X	GermanNRC	DLV	1.0
				GermanNRC	EFV	101.0

■W ho We Are & How to Contact Us ■Pu blications

■Ac knowledgements

The Data

- ■Us er Guide & Database Documents
 ■Da tabase Statistics
 ■HIV Treatment Websites

- ■Ad ditional Resources

A curated public database designed to represent, store, and analyte the divergent forms of data underlying HIV drug resistance.

HOME

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GENOTYPE-CLINICAL

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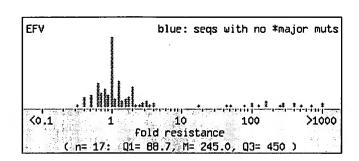
Detailed RT Phenotype Query

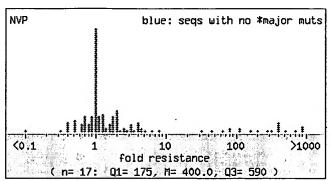
Mutations G190A, References

K101E Isolates 16

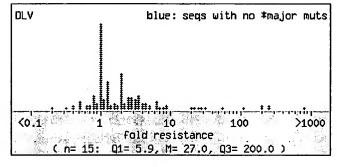
Drugs NVP,DLV,EFV Results 49

Assay ANY WithNoOtherMajorMuts No





11



Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 49 from Total 49 Phenotype results

	the second secon				·						
	Author (yr) Typ	pe Isolat	es	NRTI	NNRTI	Other	Method	Drug	!	Fold	ŧ
*				· · · · · · · · · · · · · · · · · · ·				a-,			
	<u>!</u>		1		!		:	!	1		- 1

<u>Huang</u> (1999)	Lab	WH101E-108I- 190		K101E, V108I, G190A	K102Q, S162C, K277R	Virologic	DLV	>200.0
		1				Virologic	EFV	270.0
				i	· jorde mer enement - · · · · · · · · · · · · · · · · · ·	Virologic	NVP	>680.0
Petropoulos (2000)	Lab	NL43-nnrti-10		K101E, G190A	K102Q, S162C, K277R	Virologic	DLV	2.0
			:			Virologic	EFV	123.0
						Virologic	NVP	>500.0
Winters (2000)	Clinical	q759	A62V, D67N, T69~, V75I, F77L, Y115F, F116Y, Q151M, M184V, K219E	K101E, Y181C, G190A	V35L, S68G, K122E, I135T, R172K, E203QE, R211K	Winters- PBMC	EFV	>500.0
					1	Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical	6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X, K259NK, S268I, Q269P	GermanNRC		256.0
the restriction was stress square, and the squ		1 1 1		-		GermanNRC	.'	
		10440			1	GermanNRC	,	
<u>Gonzales</u> (2002)	Clinical	49110-1	D67N, K70R, T215I, K219Q	A98S, K101E, V179I, G190A	K122E, D123E, D177E, I178L, V245E, K277R, T286A,	Virologic	DLV	.2.1

, ,	* * * * * * * * * * * * * * * * * * *	•		-	E297K	100		1
					1	Virologic	EFV	76.0
					1	Virologic	NVP	>400.0
Margot (2002)	Clinical	MM-5219366841	A62VA, K65R, T69IT, V75AVTI, K219QRK	Y181CY,	V21IV, S68GS, V90IV, K104N, R211K, H221YH, D237N, V245Q, I293VI, A304VA, E328D, A376VA, V381IV, K385RK, K390RK, E399D	Virco	EFV	384.4
			<u> </u>			Virco	NVP	32.1
Qari (2002)	Clinical	215566	D67N, T69D, T215Y, K219N	K101E, Y181C, G190A	K122E, I202V, A272P, K277R, Q278E, T286A, E297K, G335D, R356K, M357R, K366R, A376V, T386A, A400T	Virco	DLV	>110.6
						Virco	EFV	283.3
f .					<u> </u>	Virco	NVP	>45.0
	-				ļ	Virologic	DLV	19.7
						Virologic	EFV	101.4
	-	!			,	Virologic	NVP	>893.0
Johnston (2005)	Clinical	71361-1	K65R	A98G, K101E, V179D, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M	Virologic	DLV	5.9
			:	ļ	<u> </u>	Virologic		>1500.0
,				, , , , , , , ,	·	Virologic	NVP	>893.0
Mo (2005)	Clinical	8242_d660_Virco	D67N,	A98G,	V35M,	Virco	DLV	192.3

	executable computed in an administrative formal fig. for all the formal formal figures of the computed formal form		K70R, T215F, K219Q	K101E, G190A	I135K, E169D, I178F, G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S			
					The state of the s	Virco	EFV	17.0
					1	Virco	NVP	84.5
Rhee (2005)	Clinical	CA7736	M41L, D67G, K70R, L74V, T215Y, K219E	K101E, Y181V, G190A	E28A, V60I, S68G, K122E, I135T, I178M	Virologic	DLV	>250.0
		1				Virologic	EFV	>700.0
		•				Virologic	NVP	>400.0
Rhee (2006)	Clinical	71361-2	K65R	A98G, K101E, Y181C, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic		>800.0
		!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!!		***		Virologic	EFV	>1500.0
						Virologic	NVP	>893.0
		CA37949	M41L, D67N, T69N, K70R, T215F, K219Q	K101E, Y181C, G190A	K43QK, V60I, K122E, D123N, I135V, D177E, D218E, L228RH, K281R, T286AT, A288SA, I293V	Virologic	DLV	23.0

1		1			Virologic		105.0
4			1		Virologic	NVP	>200.0
	CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	T39K, K43E, V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic	DLV	31.0
					Virologic	EFV	400.0
					Virologic	NVP	300.0
	GA-2	D67NH, K70R, M184V, T215F, K219Q	K101E, Y181C, G190A		Virologic	DLV	2.4
		-			Virologic	EFV	50.0
		de la companya de la			Virologic	NVP	>400.0
	SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	E6K, V35M, T39A, K43E, K122E, P170LP, E203K, Q207D, H208Y, R211K, L228H, A272P, I293V, I329L	Virologic	DLV	7.4
					Virologic	EFV	46.0
		and the second s			Virologic	NVP	>400.0
	SR208661	M41L, A62V, T69D, V75T, L210W, T215Y	K101E, Y181C, G190A	D123E, I135T, I142V, R211K, L228R, A272S, K277R, K281R, I293V, E297K, Q334E	Virologic	DLV	27.0

Virologic EFV 245.0 Virologic NVP >400.0

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Mutations

G190A,

References

7

K103N

Isolates

20

Drugs

NVP,DLV,EFV

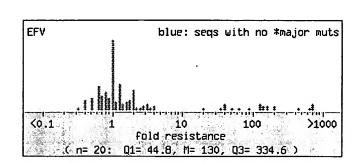
Results

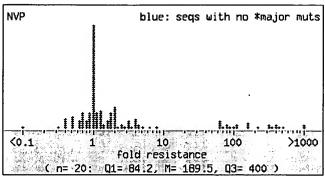
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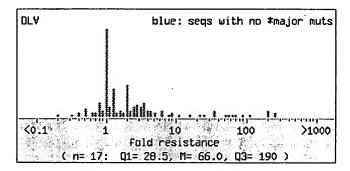
Assay

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 57 from Total 57 Phenotype results

en de la companya de							
Author (yr)	Type Isolates		NRTI :	NNRTI	Other Met	hod Drug	Fold
					Other met	nou brug	roid
,					i		
•		i					

Petropoulos (2000)	Lab	NL43-nnrti- 13		K103N, G190A	K102Q, S162C, K277R	Virologic	DLV	37.0
		1				Virologic	EFV	213.0
				;		Virologic	NVP	>500.0
<u>Winters</u> (2000)	Clinical	q712	,	A98S, K103N, Y181C, G190AG	K20R, K102E, I135T, Q197K, I202VI, R211K, V245K, A272P	Winters- PBMC	EFV	42.5
						Winters- PBMC	NVP	>150.0
Masquelier (2001)	Clinical	BM-19	M41L, T69T_ST, L74VL, L210W, T215Y	K103N, Y181C, G190A	K32RK, R83K, K122E, D123ND, Q207E, R211K, L228H, K238NK		EFV	>209.0
						Phenoscript	NVP	>2894.0
		BM-32	M41L, D67G, T69T_T, K70R, L74V, V118I, M184V, T215F, K219Q	K103N, G190A	E42D, K43Q, K64N, D123E, T139R, I142T, T165I, I178MI, I202VI, F214L, L228H	Phenoscript	EFV	>137.0
		1		The second of th		Phenoscript	NVP	>1463.0
Beerenwinkel (2002)	Clinical	2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
, ,	:)::					GermanNRC		
	}		! 	! ! !		GermanNRC	NVP	69.0

2942-CODE	D67N, 1T69X, K70R, L74V, K219Q	K103N, Y181C, G190A	K20R, V35T, T39E, S48T, V60I, D76ED, K102Q, K122E, I135T, N136KN, E138A, K173T, D177E, I178L, T200A, K201NK, E204K, Q207A, R211K, F214L, L228H, V245Q, Q269X, A272P	GermanNRC			
				GermanNRC	EFV	145.0	-
				GermanNRC	NVP	219.0	
2944-THA	M41L, D67N, K70X, T215F, K219Q	K103N, Y181C, G190A	V60I, D76N, D86X, K122E, D123K, I135T, N136KN, D177E, T200A, H208QH, D218E	GermanNRC		91.0	
						·}	
3349-KAH	M41L, E44D, D67N, L74V, V118I, L210W, T215Y, K219G	K103N, Y181C, G190A, M230I	V35T, K43R, F87LF, K122E, I142V, A158X, I159X, K166R, Q174R, D177G, I180M, Q197P,	GermanNRC GermanNRC		359.0	

		e compositore de comp	H198P, E203K, R206K, Q207X, H208Y, R211N, T216X, H221X, Y232X		The companion with the control of th	
				GermanNRC	EFV	131.0
!		p :		GermanNRC	NVP	160.0
4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	DLV	11.0
				GermanNRC	EFV	129.0
				GermanNRC	NVP	159.0
4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC		51.0
	}			GermanNRC	·	
 	-	ļ		GermanNRC	 	
5306-BRU	M41L, E44A, D67N, V75M, V118I, M184V, L210W,	K103N, G190A	K43E, V60I, K122E, I142V, S162D, D177E, I178M,	GermanNRC	DLV	11.0

· · · · · · · · · · · · · · · · · · ·	T215Y, K219N		G196E, E203V, Q207E, H208Y, R211K, W212X	· ·		
				GermanNRC	EFV	36.0
				GermanNRC	NVP	62.0
5412-BRI	M41L, D67N, L74I, V75T, V118I, L210W, T215Y, K219N	K101Q, K103N, V108I, Y181C, G190A	V35M, T39A, K43E, V60X, K64NK, D123E, K173E, I178L, Q207E, D218E, D237F, K259NK, Q269P, A272P	GermanNRC		190.0
 			, (2, 2, 1)	GermanNRC	FFV	93.0
				GermanNRC		335.0
 5902-KAH	M41L,	K103N,	Q23X,	GermanNRC	-	22.0
	E44DE, D67N, L74X, V118I, M184V, L210W, T215Y, K219N	Y181C, G190A	K30X, V35T, E36X, K46Y, I47F, K49I, I50F, V60X, K82NK, V90X, K122E, D123N, I142V, K166R, D177G, H208Y, R211K, V245T, S268I, K275R, K277R	GermanNRC		410
 1		:	1 1 1	· · · · · · · · · · · · · · · · · · ·		·
				GermanNRC		
 787-BAR	M41L,	K103N,	S68G,	GermanNRC		1

			D67E, L210W, T215Y	G190A	S163X, K166R, G196E, T200A, Q207K, R211E			
						GermanNRC	EFV	123.0
Maria de maria e rati dan malari ana ratina e mana						GermanNRC	NVP	441:0
Gonzales (2002)	Clinical	17468-2	T215Y	K103N, Y181C, G190A	R83K, I135V, E169D, T200A, Q207E, K238N, V245E	Virologic	DLV	>250.0
						Virologic	EFV	>700.0
					(Virologic	NVP	>400.0
		17468-4	T215Y	K103N, V108I, Y181C, G190A	R83K, I135V, T139K, E169D, T200A, Q207E, V245Q	Virologic	DLV	>250.0
		[Virologic	EFV	>700.0
		1				Virologic	NVP	>400.0
<u>Margot</u> (2002)	Clinical	MM- 2454367801	M41L, E44A, L74I, M184V, T215Y	K103N, G190A	K43E, R83K, I135L, G196E, T200A, V245M, Q334N, K390R	Virco	DLV	35.5
	Management and the control of the co			and the state of t		Virco	EFV	456.2
	10000 1000 1000 1000 1000 1000 1000 10	i				Virco	NVP	90.4
		MM- 3070365661	M41L, E44D, D67N, L210W, T215Y	K103N, G190A	R83K, D123E, I178L, R211K, T286A, E297K, A371V, I375V, A376S, K390R	Virco	DLV	73.1
						Virco	EFV	621.3
Mr vn	· · · · · ·	فيها والمستهدي الألفان		<u> </u>	*	Virco	NVP	63.5
• ••••	;	MM-	M41L,	K103N,	V35IV,	Virco	DIV	195.6

		4262368221	D67N, V75L, L210W, T215Y, K219R	G190A	T39A, K43E, V60I, K102DN, D110ED, D123E, I135T, I142V, S162Y, V189IV, G196EG, E203A, R211K, H221Y, A288S, T290AT, V317A, I329VI, Q334D, G359S, A371T, S379C, K390R			
	1					Virco	EFV	685.3
						Virco	NVP	103.6
Mo (2005)	Clinical	8371_d105	M184V	K103NK, G190A	V35I, I135T, R211K, V245K, T286A, E297K, K311RK, I326VI, Q334L, T377Q, K390R, K395KN, A400AV	Virco	DLV	16.3
						Virco	EFV	21.3
	<u> </u>					Virco	NVP	59.5

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GENOTYPE-PHENO GENOTYPE-CLINICAL

Mivab Program

Detailed RT Phenotype Query

Mutations

G190A,

References

0

K101E,

Isolates

0

K103N

Results

Drugs

NVP,DLV,EFV

Assay

ANY

WithNoOtherMajorMuts No

There are no results matching the query

STANFORD UNIVERSITY HIV DRUG RESISTANCE DATABASE

A curated public database designed to represent, store, and analyze the divergent forms of data underlying HIV drug resistance.

MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

HIVOD PROGRAM

Detailed RT Phenotype Query

Mutations

G190A,

References

0

K101E,

Isolates Results 0

K103N

Drugs Assay NVP,DLV,EFV

ANY

WithNoOtherMajorMuts No

There are no results matching the query

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HIVdb PROGRAM

Detailed RT Phenotype Query

Mutations

G190S.

References

4

K101E

Isolates

12

Drugs

NVP,DLV,EFV

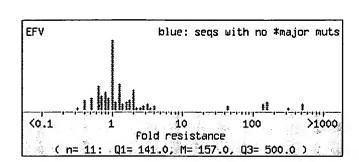
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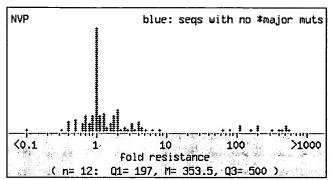
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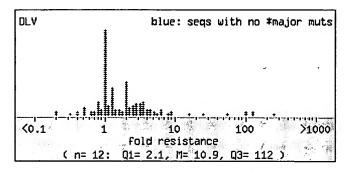
Assay

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 35 from Total 35 Phenotype results

Author (yr)	Type	Isolates	NRTI	NNRTI : (Other	Method Drug	Fold
Author (yr)	iype	isolates	· 1412.11	HIMINETT , C	Other '	wethou prug	; Fulu i
							
				•			
,							

Petropoulos (2000)	Clinical	P644	er an er annahmen	K101E, G190S		Virologic	DLV	3.0
App my			The second secon		and the second s	Virologic	NVP	580.0
	Lab	NL43-nnrti- ,11		K101E, G190S	K102Q, S162C, K277R	Virologic	DLV	1.4
						Virologic	EFV	>500.0
	<u> </u>	1				Virologic	NVP	>500.0
Beerenwinkel (2002)	Clinical	3854-MUE	A62X, L74V, T215Y, K219Q	K101E, Y181R, Y188X, G190S, P226X, P236L	T58X, R83K, D123E, W153A, S156X, P157X, A158Q, I159SR, S162RS, S163X, M164SR, I167F, L168*, E169D, P170X, F171X, R172S, I178L, Y183N, L187Q, D192E, Q207E, H208X	GermanNRC	DLV	95.0
				14 1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	The state of the s	GermanNRC	EFV	141.0
						GermanNRC	NVP	200.0
		3864- SCHA	M41L, D67N, L210W, T215Y	K101E, K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC		16.0
			1		•	GermanNRC	FEV	141 0
			!	<u> </u>	1	GermanNRC		\$.

		K101E, Y181C, G190S	V35T, T39S, T58X, V60I, K122E, I135M, R172X, L228H	GermanNRC		
-				GermanNRC	EFV	44.0
				GermanNRC	NVP	169.0
	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC	DLV	102.0
				GermanNRC	EFV	157.0
				GermanNRC	NVP	448.0
7000-HOG	M41L, D67X, T69D, V75A, V118I, L210W, T215Y		V35I, I37MI, T39X, E40F, K43E, K46NK, K49X, P52X, E53G, R72SR, R83X, L92X, V111I, K122P, I135T, E138A, E169K, K173E, I180F, D186X, G196E, Q197K, H198X, H208F, R211K, Q222P,	GermanNRC	DLV	2.0

· !				i	D237ED	6 1 6		8
			1			GermanNRC	EFV	147.0
		[:				GermanNRC	NVP	407.0
		7066-SAM	M41L, D67N, K70R, V75M, T215F, K219E	K101E, G190S	P52X, N54X, P55X, Y56X, N57K, T58I, P59X, V60X, F61LF, I63L, K64R, F87LF, D123E, I180X, G196E, Q197HQ, Q207H, H235P	GermanNRC	DLV	256.0
					***************************************	GermanNRC	EFV	162.0
						GermanNRC	ļ	
		7134-BON	M41L, D67N, V75M, V118I, Q151X, M184I, L210W, T215F, K219N	K101E, Y181C, G190S	E40F, K43E, K122E, I142V, S162C, D185X, D186N, T200X, H208Y, R211K, D218X, Q222HQ	GermanNRC		122.0
						GermanNRC	EFV	45.0
and the state of body as a second of the same and						GermanNRC	NVP	114.0
Mo (2005)	Clinical		M41L, D67N, K70R, V75M, M184V, T215F, K219E	K101E, G190S	V60I, D123E, G196E, Q207H, 'A272P, Q278H, E297K	Virologic	DLV	0.2
	1	! !				Virologic	EFV	302.0
	1	-				Virologic	NVP	512.8
Rhee (2006)	Clinical	NY0528	M41L, D67N, M184V, T215F	K101E, V179I, G190S, M230L	K43Q, K49R, V60I, R83K,	Virologic	DLV	5.7

NY053	E44D, D67d, T69G, K70R,	K101E, K103R, G190S	D123E, R211K, D237E, A272P, K277K, T286A, I293I, E297K K20R, S68G, R83K, K166R,	Virologic		500.0 300.0 2.2
	T215I, K219Q		V245K, A272P		•	
				Virologic	EFV	500.0
				Virologic	NVP	500.0

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Mutations

G190S,

References

2

K103N

Isolates

4

Drugs

NVP,DLV,EFV

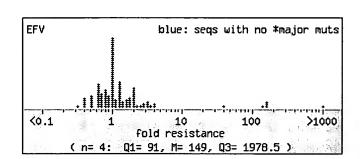
Results

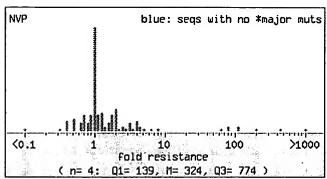
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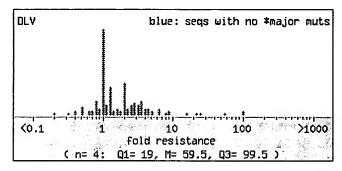
Assay

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 12 from Total 12 Phenotype results

							_	
Author (yr) Type	Isolates	NRTI	NNRTI .	Other	Method	Drug	Fold	- 1
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<u>Bacheler</u> (<u>2001)</u>	Lab	LB- 48T- 103N- 190		K103N, G190S	S48T, K122E, F214L, A272P, K277R	Virco	DLV	97.0
	-		1			Virco	EFV	3800.0
angan ga ay ay angan ga (park			Transport to the second			Virco	NVP	1100.0
Beerenwinkel 2002)	Clinical		M41L, D67N, L210W, T215Y	K101E, K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC	DLV	16.0
Water and the second se	***************************************			et i		GermanNRC	EFV	141.0
						GermanNRC	NVP	200.0
		5803- SCH	M41L, A62V, D67N, K70X, L74MI, V75T, T215Y	K101R, K103N, G190S	Q23X, V60X, K64NK, S68X, R72X, D76N, R78X, E79X, R83K, D123E, D177E, I178L, I202V, Q207R, R211S, D237E	GermanNRC		22.0
						GermanNRC	EFV	41.0
						GermanNRC	1	,
		6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W,	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A,	GermanNRC	DLV	102.0

E203K, Q207E, R211K, T216X, K223Q			
GermanNRC	EFV	157.0	
GermanNRC	NVP	448.0	

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HIVED PROGRAM

Detailed RT Phenotype Query

Mutations

G190S,

References

1

K101E,

Isolates

2

K103N

Results

6

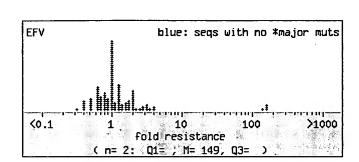
Drugs

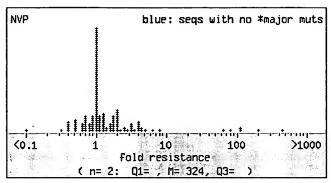
NVP,DLV,EFV

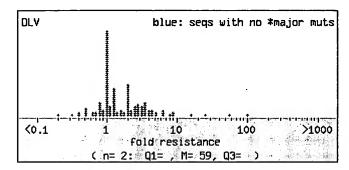
Assay

ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 6 from Total 6 Phenotype results

				 	 				
Author (yr)	Type	Isolates	NRTI	NNRTI	Other	:	Method	Drug	Fold

Beerenwinkel Clin (2002)		M41L, D67N, L210W, T215Y	K103N, G190S	G18X, I31X, V35I, C38W*C, Y56X, N57KN, T58I, D121Y, K122E, D177E, I178V, G196E, T200I, R211A, P243X	GermanNRC	DLV	16.0
		**************************************			GermanNRC	EFV	141.0
					GermanNRC	NVP	200.0
	6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	K101E, K103NK, V179X, Y181C,	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC		102.0
					GermanNRC		157.0
					GermanNRC	NVP	448.0

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Detailed RT Phenotype Query

Mutations

G190A,

References

2

K103N, A98

Isolates

4

Drugs

NVP, DLV, EFV

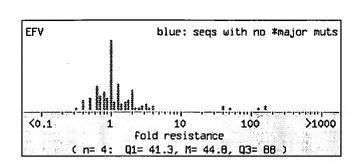
Results

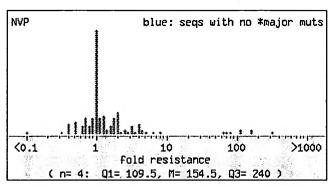
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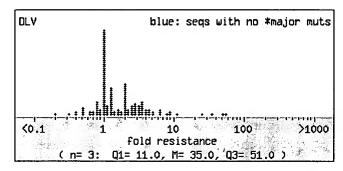
Assay

ANY

WithNoOtherMajorMuts No







Page 1	from Results	1 to	Result 11	from Total 11	Phenotype	results
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1	A 4 la (\	,	T		MOTI	A LA LES TEL	O.11	8.0 . 41 3	Tall	1 .1
	Author (yr)	,	Type	Isolates	NRTI	NNRTI	Other	Method	: Drug \ Fo	10
							011101			
· ·				·						
						!			•	
									,	

<u>Winters</u> (2000)	Clinical	q712	D67~, T69G, K70R, T215F, K219E	A98S, K103N, Y181C, G190AG	K20R, K102E, I135T, Q197K, I202VI, R211K, V245K, A272P	Winters- PBMC	EFV	42.5
				TRI data service de la constante de la constan		Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical	2095- LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
						GermanNRC	EFV	40.0
						GermanNRC	NVP	69.0
		4463- EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC		11.0
						GermanNRC	EFV	129.0
	1				1	GermanNRC	NVP	159.0
		LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P,	GermanNRC	DLV	51.0

;		K277G, Q278H, A288P	, , ;	·
			GermanNRC EFV	47.0
)		GermanNRC NVP	321.0

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Detailed RT Phenotype Query

Mutations G190A,

References

K103N, A98G

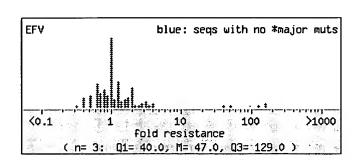
Isolates 3

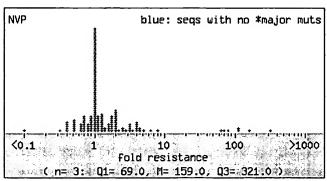
Drugs NVP,DLV,EFV

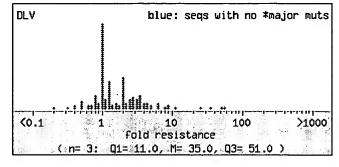
Results 9

Assay ANY

WithNoOtherMajorMuts No







Drug susceptibility results of sequences matching input query are shown in the table below. Literature references are indicated, as well as the isolate name and type and a list of major, minor and other mutations. The fold resistance to the indicated antiretroviral drug is indicated in the last column of the table. Data is also summarized above in graphical format. Blue bars indicate the range of resistance of those sequences with no *major drug resistance mutations (mutations at position 41, 44, 62, 65, 67, 69, 70, 74, 75, 77, 115, 116, 118, 151, 184, 210, 215, 219, 333, 98, 100, 101, 103, 106, 108, 179, 181, 188, 190, 225, 226, 227, 230, 234, 236, 238, 318) and red bars indicate the fold resistance of sequences matching the input query. The total number of sequences(n), the median fold resistance(m), as well as the first(Q1) and third quartile(Q3) are indicated.

Page 1 from Results 1 to Result 9 from Total 9 Phenotype results

•	Author (yr)	Туре	Isolates	NRTI		NNRTI	Other	Method	Drug	
		i	i	j		ĺ				;	

Beerenwinkel Clinical (2002)	2095- LAN	V118I,	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C, R211K, A272P, K277R, T286P, A288P, L289N	GermanNRC	DLV	35.0
					GermanNRC	EFV	40.0
					GermanNRC	NVP	69.0
	4463- EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	A98G, K103N, G190A	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	DLV	11.0
					GermanNRC	EFV	129.0
					GermanNRC	NVP	159.0
	4936- LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC		
	!	·	: : :		GermanNRC		
•		<u> </u>	: •		GermanNRC	NVP	321.0

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GENOTYPE-PHENO

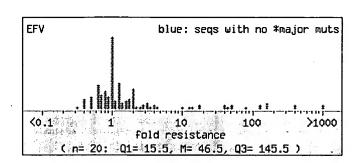
GENOTYPE-CLINICAL

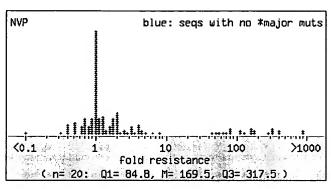
KIVOD PROGRAM

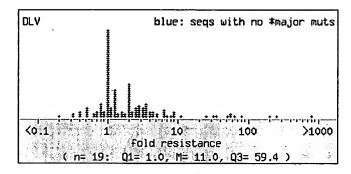
Detailed RT Phenotype Query

MutationsG190A, A98References7DrugsNVP,DLV,EFVIsolates20AssayANYResults59

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 59 from Total 59 Phenotype results

Author (yr)	Туре	Isolates	NRTI	NNRTI	Other	Method	Drug Fold
<u>Winters</u>	Clinical		D67~,	A98S,	K20R,	Winters-	EFV 42.5

(2000)			T69G, K70R, T215F, K219E	K103N, Y181C, G190AG	K102E, I135T, Q197K, I202VI, R211K, V245K, A272P	PBMC		
					!	Winters- PBMC	NVP	>150.0
Beerenwinkel (2002)	Clinical	1771-REC	M41W, E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	A98G, K101G, Y181C, G190A	K20R, V21F, V35M, K43X, I50X, P52X, N54X, P55X, Y56N, N57K, T58I, P59X, V60X, I63X, K64R, S68RS, R72X, R78X, L80X, T84I, D86N, W88X, I94K, P95Q, H96X, K102X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10X, K10	GermanNRC	DLV	9.0
						GermanNRC	/	
] • • • • • • • • • • • • • • • • • • •				GermanNRC		·
		2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y,	A98G, K103N, V108I, G190A	V35I, E40F, K43E, S68G, K122E, S162C,	GermanNRC	DLV	35.0

		K219N		R211K, A272P, K277R, T286P, A288P, L289N		The second secon	
-				· · · · · · · · · · · · · · · · · · ·	GermanNRC	!	
			_	- 12:12	GermanNRC	·!	->
	292-MAT	M41L, E44D, T69D, V75M, V118I, L210W, T215S	A98S, Y181C, G190A	P4S, E6D, K20R, K43N, K102Q, K122D, K166R, T200M, Q207E, R211K, E224D, L228R	GermanNRC	DLV	56.0
				i de la companya de l	GermanNRC	EFV	51.0
					GermanNRC	NVP	314.0
	3885-TIM	M41L, D67N, T69D, T215Y	A98G, G190A	T58I, V60I, K82R, R83K, L120S, D123ED, F124X, T128X, T131H, I132X, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X	GermanNRC	DLV	1.0
					GermanNRC		
; ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,, ,,			1		GermanNRC		·
	4463-EIBE	M41L, E44D, D67N, T69D,	A98G, K103N, G190A	K20R, V35L, D123E, I135T,	GermanNRC	DLV	11.0

			V118I, L210W, IT215Y, K219R		N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H	GermanNRC	EFV	129.0
					!	GermanNRC	NVP	159.0
		4936-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	A98G, K103N, G190A	V35I, E40F, K43E, S68G, K122E, S162C, T200I, R211K, Q269X, A272P, K277G, Q278H, A288P	GermanNRC	DLV	51.0
						GermanNRC	EFV	47.0
				100		GermanNRC	NVP	321.0
		6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	E28K, V35I, T39A, K43E, H96R, K122E, I142V, R172X, D186X, E203K, H208Y, R211K, L228R, K238E, V245T, E248X, K259NK, S268I, Q269P	GermanNRC		
				•		CormonNIDC		160.0
	-	W =	-		· · · · · · · · · · · · · · · · · · ·	GermanNRC		·
Gonzales	-	49110-1	D67N,	A98S,		GermanNRC		283.0

(2002)			K70R, T215I, K219Q	K101E, V179I, G190A	D123E, D177E, I178L, V245E, K277R, T286A, E297K	*		
			1			Virologic	EFV	76.0
 	<u> </u>		<u> </u>			Virologic	NVP	>400.0
		49110-3	D67N, K70R, T215F, K219Q	A98S, V179I, G190A	K122E, D123E, D177E, I178L, V245E, K277R, T286A, E297K, K311R	Virologic	DLV	0.4
						Virologic	EFV	4.3
						Virologic	NVP	85.0
<u>Margot</u> (2002)	Clinical	MM-3576366701	M41L, M184V, T215FY	A98S, K101DEHQ, G190A	D121Y, I135VI, I142VI, D177E, Q207E, R211K, D237E, T286A, M357T, R358KR, T377Q, T386AVTI, K395R, E399D, A400TA		DLV	59.4
	<u></u>					Virco	EFV	398.4
Topon-mayor 18th managemental determination for the parameter and						Virco	NVP	49.5
		MM-4346366641	M41L, E44D, M184V, T215Y	A98G, V179I, G190A	K20R, K102Q, D123E, I135M, Q207E, T286A, E297K, I329LI, A360T, V365IV	Virco	DLV	0.3
	: : · · ·	<u></u>	i		<u> </u>	Virco	EFV	
Johnston	Clinical	71361-1	K65R	A98G,	V35T,	Virco Virologic	,NVP ,DLV	121.9 5.9

(2005)				K101E, V179D, G190A	K49R, K122E, A158S, E169D, R211A, V245M	· · · · · · · · · · · · · · · · · · ·		() , , , , , , , , , , , , , , , , , ,
1		• • • • • • • • • • • • • • • • • • • •	1	1		Virologic	EFV	>1500.0
The design of the second design of		•				Virologic	NVP	>893.0
Mo (2005)	Clinical	8242_d660_Virco	D67N, K70R, T215F, K219Q	A98G, K101E, G190A	V35M, I135K, E169D, I178F, G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S	Virco	DLV	192.3
						Virco	EFV	17.0
191111111111111111111111111111111111111						Virco	NVP	84.5
		8315_d867	M184V	A98S, G190A	K43E, K122E, I142V, E203K, R211RS, V245T, E297K	Virologic	DLV	0.7
						Virologic	EFV	14.0
						Virologic	NVP	182.0
		8315_d985	M184V	A98S, G190A	K43E, K122E, I142V, E203K, R211S, V245T, E297KR	Virologic	DLV	0.5
		The state of the s			Aller and the second se	Virologic	EFV	9.5
- · · · · · ·			1			Virologic	NVP	156.0
		8371_d286		A98SA, G190A	V35I, I135T, V189VI, R211K, V245K, T286A,	Virco	DLV	76.8

					E297K, 1326V, Q334L, T377Q, K390R, A400AV			
		1		1		Virco	EFV	13.2
f			·			Virco	NVP	42.9
Rhee (2006)	Clinical	71361-2	K65R	A98G, K101E, Y181C, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic	DLV	>800.0
NA	}		-			Virologic	EFV	>1500.0
						Virologic		>893.0
		CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	T39K, K43E, V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic	DLV	31.0
	<u></u>					Virologic	EFV	400.0
	<u></u>					Virologic	NVP	300.0
		SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	E6K, V35M, T39A, K43E, K122E, P170LP, E203K, Q207D, H208Y, R211K, L228H, A272P, I293V, I329L	Virologic	DLV	7.4
نسيد بالمسلم			·			Virologic	EFV	100

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Mutations

G190S, A98

References

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Drugs

NVP, DLV, EFV

Isolates

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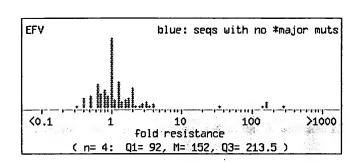
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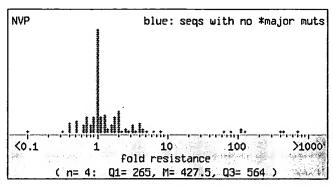
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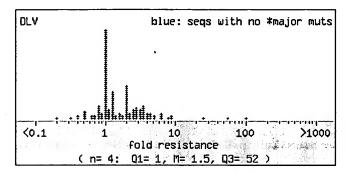
Results

12

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Page 1 from Results 1 to Result 12 from Total 12 Phenotype results

Author (yr)	Туре	Isolates	NRTI NNRTI	Other	Method	Drug Fold
<u>Huang</u>	Lab	WH-	A98G,	K102Q,	Virologic	DLV 1.0

<u>(1999)</u>	Common of the co	98G- 190S	i e	G190S	S162C, K277R			
			<u> </u>			Virologic	EFV	>270.0
			and the state of t	ender the transfer that the second se		Virologic		>680.0
Beerenwinkel (2002)	Clinical	MAR	D67N, K70R, M184V, K219E	A98R, L100V, G190S	T58X, V60I, F87X, V90X, Q91E, L92X, P95X, G99X, Y127X, S162H, T200A, E203K, Q207E, R211K, K249NK	GermanNRC		
						GermanNRC	EFV	37.0
						GermanNRC	NVP	123.0
		6663- WER	M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC	DLV	102.0
	7					GermanNRC	EFV	157.0
			•]		GermanNRC	NVP	448.0
		HOG	M41L, D67X, T69D, V75A, V118I, L210W, T215Y	A98S, K101ED, G190S	V35I, I37MI, T39X, E40F, K43E, K46NK, K49X, P52X, E53G, R72SR, R83X, L92X, V111I, K122P,	GermanNRC	DLV	2.0

		·	I135T, E138A, E169K, K173E, I180F, D186X, G196E, Q197K, H198X, H208F, R211K, Q222P, D237ED			
ŧ				GermanNRC	EFV	147.0
				GermanNRC	NVP	407.0

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MONE

GENOTYPE-RX

GENOTYPE-PHENO

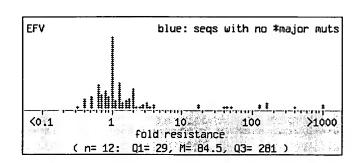
GENOTYPE-CLINICAL

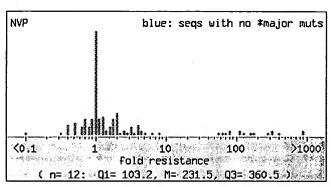
HIVOD PROGRAM

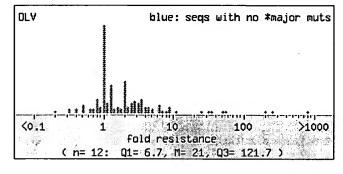
Detailed RT Phenotype Query

MutationsG190A, A98GReferences5DrugsNVP,DLV,EFVIsolates12AssayANYResults36

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 36 from Total 36 Phenotype results

Author (yr) Type	Isolates	NRTI	NNRTI	Other	Method	Drug	Fold
Beerenwinkel Clinical	1771-REC	M41W,	A98G,	K20R,	GermanNRC	DLV	9.0

(2002)		E44DE, A62X, D67N, T69D, K70X, L74X, F77LF, V118I, L210W, T215Y, K219Q	K101G, Y181C, G190A	V35M,				
		ļ			GermanNRC		122.0	_
					GermanNRC	}	}	
	2095-LAN	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	K103N, V108I, G190A	K43E,	GermanNRC	DLV	35.0	
-	A SEC TO LANGUAGE SECURITY OF THE PROPERTY OF	** - vv a a villa almanimum		•	GermanNRC	EFV	40.0	· • ·
1	-			• •	GermanNRC			
	3885-TIM	M41L, D67N,	A98G, G190A		GermanNRC	•	-	:

	T69D, T215Y		K82R, R83K, L120S, D123ED, F124X, T128X, T131H, I135V, N137P, E138X, T139I, R143X, Q145HQ, Y146*Y, W153X, S162C, S163RS, E169D, E194D, H208X			
					EFV	1.0
				-}	 	56.0
4463-EIBE	M41L, E44D, D67N, T69D, V118I, L210W, T215Y, K219R	K103N,	K20R, V35L, D123E, I135T, N137H, Q174X, D177E, I180MI, L193FL, E203D, R206X, H208Y, R211D, K223Q, L228H		DLV	11.0
 					EFV	129.0
<u> </u>		1		GermanNRC	ļ	159.0
:4936-LAN :	M41L, L74I, V118I, M184V, L210W, T215Y, K219N	:		GermanNRC	DLV	51.0

		1			Q278H, A288P	1	à 1 4	· • • • • • • • • • • • • • • • • • • •
						GermanNRC	EFV	47.0
4			- and the state of		1	GermanNRC	NVP	321.0
		6893-SCHW	M41L, L210W, T215Y	A98G, K101E, Y181C, G190A	V35I, T39A,	GermanNRC	DLV	256.0
						GermanNRC	{	162.0
		-				GermanNRC	NVP	283.0
<u>Margot</u> (2002)	Clinical	MM-4346366641	M41L, E44D, M184V, T215Y	A98G, V179I, G190A	K20R, K102Q, D123E, I135M, Q207E, T286A, E297K, I329LI, A360T, V365IV	Virco	DLV	0.3
	<u> </u>					Virco	EFV	18.0
						Virco	NVP	121.9
Johnston (2005)	Clinical	71361-1	K65R	A98G, K101E, V179D, G190A	V35T, K49R, K122E, A158S, E169D, R211A, V245M	Virologic	DLV	5.9
1					1	Virologic	EFV	>1500.0
107				:	1	Virologic	NVP	>893.0
<u>Mo (2005)</u>	Clinical	8242_d660_Virco	D67N, K70R, T215F, K219Q	A98G, K101E, G190A	1135K,	Virco	DLV	192.3

.

	· , Links demands of changes of the control of the			destination of the second control of the sec	G196E, H208Y, D237DN, V276T, K281R, T286P, V292I, E297K, A304E, M357T, K366R, A400S			
						Virco	EFV	17.0
					1	Virco	NVP	84.5
Rhee (2006)	Clinical	71361-2	K65R	K101E, Y181C,	V35T, K49R, K122E, A158S, E169D, R211A, V245M, K277R, T286A, A288S, E297A	Virologic	DLV	>800.0
		1				Virologic	EFV	>1500.0
						Virologic	NVP	>893.0
		CA63818	M41L, D67N, T69ATDN, V75L, V118I, L210W, T215Y	A98G, K101E, Y181C, G190A	V60IV, I135T, E203D, Q207D, H208YH, R211K, H221YH, L228HL, V245EKQ, A288S	Virologic		31.0
1 1 1				ļ		Virologic	~	400.0
	-			<u> </u>		Virologic	· · ·	300.0
		SR201325	M41L, T69D, V75M, V118I, L210W, T215Y, K219R	A98G, K101E, Y181C, G190A	V35M, T39A,	Virologic	DLV	7.4

L: A 12	211K, 228H, 272P, 293V, 329L	
	Virologic	EFV 46.0
	Virologic	NVP >400.0

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MOME

GENOTYPE-RX

GENOTYPE-PHENO

GENOTYPE-CLINICAL

KIVOD PROGRAM

Detailed RT Phenotype Query

Mutations

G190S, A98G.

References

2

Drugs

NVP,DLV,EFV

Isolates

2

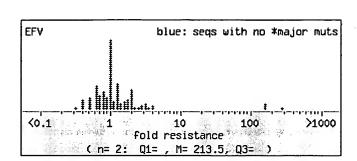
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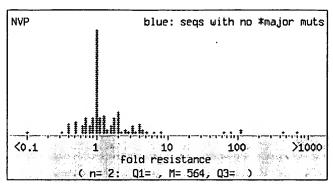
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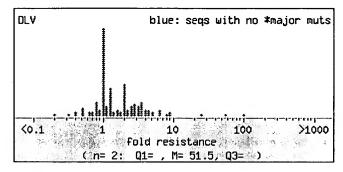
Results

6

WithNoOtherMajorMuts No







Page 1 from Results 1 to Result 6 from Total 6 Phenotype results

Author (yr)	Type	Isolates NRTI	NNRTI	Other	Method	Drug Fold	_!
Huang	Lab	WH-	A98G,	K102Q,	Virologic	DLV 1.0	1

(1999)	98G- 190S	* .	G190S	S162C, K277R	The state of the s		
					Virologic	EFV	>270.0
			!		Virologic	NVP	>680.0
Beerenwinkel Clinical (2002)		M41L, E44D, D67N, T69D, L74V, V118I, L210W, T215Y	A98G, K101E, K103NK, V179X, Y181C, G190S	Y56X, F87LF, K122E, S162C, R172K, I180X, Q197HQ, T200A, E203K, Q207E, R211K, T216X, K223Q	GermanNRC		102.0
					GermanNRC	EFV	157.0
					GermanNRC	NVP	448.0

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